

MILCU, St.-M., acad.; ESANU, C.; MITRACHE, Ludmila; DINULESCU, Elena;  
GRIGORESCU, A.

Pathology of lipid metabolism in obese patients. Stud. cercet.  
endocr. 16 no.3:270-277 '65.

ESAKIYA, E. M.

"The study by students of the elements of agriculture in the botany course."  
Min Education Azerbaydzhan SSR. Azerbaydzhan State Pedagogical Inst imeni  
V. I. Lenin. Baku, 1956. (DISSERTATION For the Degree of Candidate in  
PEDAGOGICAL SCIENCE.)

Knizhnaya letopis'  
No 33, 1956, Moscow

CA ESANU, F.

27

The solubility of vegetable oils in furfuryl alcohol. The critical solution temperatures of a few oil-furfural systems. E. Angelescu and P. Esanu (Univ. Bucharest, Romania). *Acad. Rep. Populară Române, Bul. Științ., Ser. Mat., Fiz., Chim.*, 2, 387-397 (1950) (French summary). — A few reciprocal solv. curves of furfuryl alc. and vegetable oils were studied by deg. their crit. soln. temp. Solv. tables for the following oils are given: colza (rape), cucumber, sunflower, tobacco, soybean, poppy, walnut, hempseed, linseed, and olive. Gerhard Ausleger

RUMANIA / Chemical Technology. Cellulose and Its  
Derivatives. Paper.

H-33

Abs Jour: Ref Zhur-Khimiya, No 14, 1959, 52016.

Author : Esanu, F.  
Inst : Not given.  
Title : Paper Casting.

Orig Pub: Celul. si hirtie, 1958, 7, No 11, 445-449.

**Abstract:** Presented are methods of paper casting and described is an apparatus built at the First of May Paper Factory, that manufactures special boxes for packaging eggs.

Card 1/1

H-199

ESANU, F.

Manufacture of some varieties of packaging anticorrosive paper. p. 2'3.

CEL'LOZA SI USTIIE. (Asociatia Stiintifica a Inginerilor si Tehnicienilor din Romania si Ministerul Industriei Petroleului si Chimiei) Bucuresti, Romania. Vol. 8, no. 8, Aug. 1959.

Monthly List of East European Accessions (EEAI) LC, Vol. 9, no. 2, Feb. 1960.

Uncl.

ESANU, F.

Corrugated paperboard, and its use as packaging material. p.328

CELULOZA SI HIRTIE. (Asociatia Stiintifica a Inginerilor si Tehnicienilor din Romania si Ministerul Industriei Petrolului si Chimie) Bucuresti, Romania Vol. 8, no. 10, Oct. 1959

Monthly List of East European Accessions (EEAI) LC, Vol. 9, no.2, Feb. 1960

Uncl.

ESANU, F., ing.; POPESCU, C., biolog; PETREA, G., ing.; HERSCU, O., chim.

Some contributions on the use of straw as raw material in  
the paper industry. Cel hirtie 10 no.7/8:249-258 J1-4g'61

POPESCU, G., biolog, laureata a Premiului de Stat; ESANU, F., ing.; ANDRUCHOVICI, F., ing.; LAZAR, V., biolog; SAVULESCU, Alice, prof. dr.

Combating the microorganisms in moist straw cellulose. Cel hirtie 11 no.4:141-150 Ap '62.

1. Institutul de Cercetari si Proiectari pentru Hirtie, Celuloza si Stuf (for Andruhovici). 2. Institutul de biologie "Traian Savulescu" (for Lazar). 3. Membru al Academiei R.P.R. (for Savulescu).

ESANU, F., ing.; KONERTH, H., ing.; ANDRUCHOVICI, F., ing.; FISCHGOLD, S.  
ing.; POPESCU, G., biolog.; ANTON, I., ing.; POPOVICI, M. ing.;  
HOTOPELEANU, A., ing.; REICHMANN, E., ing.; CONSTANTINESCU, O.,  
ing.

Studies on how to obtain an alkaline pulp (sulfate and natron)  
from straw by continuous digesting in a Pandia type installation.  
Cel. hirtie 11 no. 6205-219 Je '62

WOLFSHAUT, C.; IOANITIU, D.; ESANU, C.; STOICA, T.; ALBU, N.; BUNEA, M.;  
ISTRATE, F.

Melanoderma with primary hypercorticotropism. Stud. cercet.  
endocr. 15 no.4:351-355 '64.

ESANU, G.; BANK, S.

Nonspecific heterologous serum as a blood substitute.  
Rev. igiena microb. epidem., Bucur. 1:63-77 Jan-Mar 55.

I. Institutul Dr. I. Cantacuzino si Catedra de microbiologie  
I. P. S. M. F.

(BLOOD TRANSFUSION, experimental  
heterologous nonspecific sera, causing shock & death,  
in guinea pigs.

(FORMALDEHYDE, eff.  
formol, on tox. of nonspecific heterologous sera for  
guinea pigs, relation to blood transfusion shock.

(ALLERGY  
anaphylactic shock caused by heterologous nonspecific  
sera in transfusion, in guinea pigs.

WEINBACH, R.; ISANU, G.

Study of an X antigen complex from rhinopharyngeal exudate by means of an antigen-antibody reaction supported by erythrocytes (passive hemagglutination reaction of the Cantacuzino-Angelescu type) Stud. cercet. inframicrobiol., Bucur. 6 no.3-4:565-576 July-Dec. 1955.

(ANTIGENS AND ANTIBODIES

X antigen complex from rhinopharyngeal exudate tested by passive hemagglut. reaction)

(HEMAGGLUTINATION

test of X antigen complex from rhinopharyngeal exudate)

RUMANIA / General Problems of Pathology. Immunity. U

Abs Jour: Ref Zhur-Biol., No 9, 1958, 41851.

Author : Weinbach, R., Esanu, G.

Inst : Academy of RPR.

Title : Contribution To the Study of the Antigen Complex X in the Nasopharyngeal Exudate with the Aid of the Antigen-Antibody Reaction and Utilization of Erythrocytes. II) The Reaction of Passive Hemagglutination of the Cantacuzino-Angelescu Type.

Orig Pub: Studii si cercetari inframicrobiol si parzitol.  
Acad RPR, 1958, 7, No 3-4, 517-526.

Abstract: The study of the soluble antigen complex X discovered by the authors (ibid. 1955, 6, No 3-4,) was undertaken with the aid of the Cantacuzino-Angelescu type of hemagglutination reaction. This complex is associated not only with hemoly-

Card 1/2

RUMANIA / General Problems of Pathology. Immunity. U

Abs Jour: Ref Zhur-Biol., No 9, 1958, 41851.

Abstract: tic streptococci group A, but with other microbes isolated from the nasopharynx (Bacilli Friedlander and others) : it is different from the compounds C and M, erythrogenic toxin or streptolysin-O; when it is present in excess the reaction of passive hemagglutination does not take place etc.  
-- F. L. Bukh.

Card 2/2

1

ESANU, G.; BANC, S.; GAICU, M.; WEINBACH, R.; HAAS, H.; STAVRI, D.

A study on *Leuconostoc* strains isolated in the Rumanian People's Republic. Rumanian M. Rev. 1 no.2:25-26 Apr-June 57.

(~~FUNGI~~

*Leuconostoc* strains isolated in Rumania)

ESANU, I.; MARIAN, N.; STOICUTA, M.

Comments on the treatment by iontophoresis of certain diseases  
of the anterior pole. Rumanina med. rev. 7 no. 3:83-86 Ja-Mr'64

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5(3)  
17(1)

RUM/2-60-3-28/36

AUTHOR: Eșanu, V.

TITLE: The Artificial Muscle ✓

PERIODICAL: Stiință și Tehnică, Seria a II-a, 1960, Nr 3,  
pp 38-39

ABSTRACT: The article deals with the artificial muscle and compares the human muscles with the general principles of energy. The author refers to the chemical substance ATP and gives a short review of the chemical energy of this substance. The first model of a living muscle was developed by the Soviet researchers V.A. Engelhardt and M.N. Lyubimova in 1939. A model of an artificial muscle was developed recently by the Soviet Physical Chemist Kachalski. The latter suspended a polyacrylic acid thread on the arm of a dynamometer. The thread could expand or contract under the influence of bases and acids.

Card 1/2

The Artificial Muscle

RUM/2-60-3-28/36

This experiment proved that the 1-cm polyacrylic thread can carry a weight of 100 kg. The Academician Straub showed that the reaction of combined actin and myosin under the influence of ATP is stronger than the reaction of myosin alone. Further reference is made to the Soviet scientists Kobrinskiy, Breydo, Furfinkel and others, who created a prosthesis controlled by biocurrents. There are 2 figures.

Card 2/2

RUMANIA/Human and Animal Physiology - Action of Physical Factors.

T-13

Abs Jour : Ref Zhur - Biol., No 7, 1958, 3236<sup>4</sup>

Author : Esanu, V.

Inst :

Title : New Soviet Investigations in the Field of the Use of Ultrasound in Biochemistry.

Orig Pub : An. Rom.-Sov. Ser. biol., 1956, 10, No 1, 58-70.

Abstract : No abstract.

Card 1/1

- 180 -

ESANU, V.; NEGULESCU, F.

Influence of the attack of the fungus Ustilago zeae Beckm. on some physiological and biochemical processes in host plants. p. 303.

STUDII SI CERCETARI DE BIOLOGI. SERIA BIOLOGIE VEGETALĂ. Bucuresti.  
Vol. 10, no. 3, 1958.

Monthly List of East European Accessions (EEAI) IC, Vol. 9, no. 1, January 1960.

Uncl.

ESANU, V., cerecetator

Can plants defend themselves against diseases? At si Teh  
Buc 14 no.10:13-19 C '62.

ESANU, V.

The phosphatase and apyrase activity in the tobacco plants infected with mosiac virus. Rev biol 7 no.2:19,-200 '62.

1. Biologisches Institut "Tr. Savulescu," Sektion für Phytopathologie und Mikrobiologie.

ESANU, V.

Activating energy of the reaction of  $H_2O_2$  decomposition by catalase on the potato species sensitive and resistant to Phytophthora infestans fungus attack. Studii cerc biochimie 6 no.1:91-95 '63.

1. Institutul de biologie "Traian Savulescu" al Academiei R.P.R., Sectia de fitopatologie si microbiologie.



SAVULESCU, Alice, acad.; ~~ESANU, V.~~; CALIN, Neli; NEGULESCU, Florica; GROSSU, Maria; HURGHISIU, Ileana

Morphologic, anatomic, physiological, and biochemical characteristics of some species of potatoes with different degrees of resistance to *Phytophthora infestans* (Mont.) de Bary fungus attack. Studii cerc biol s. bot 17 no.1:71-84 '64.

1. Laboratory of Phytopathology and Microbiology, "Traian Savulescu" Institute of Biology. Submitted August 5, 1964.

RUMANIA/Chemical Technology - Chemical Products and Their  
Application. Fats and Oils. Waxes. Soap.  
Detergents. Flotation Reagents.

II-25

Abs Jour : Ref Zhur - Khimiya, No 8, 1956, 26669  
Author : Klang H., Esanu-Scheuerman Fanny  
Inst : -  
Title : Oxidation of Higher Paraffins to Alcohols.  
Orig Pub : Rev. Chim., 1956, 7, No 8, 462-467

Abstract : Results of a direct oxidation of a number of different  
grades of paraffins containing up to 22 C-atoms. By  
oxidation in the presence of  $\text{KMnO}_4$  and  $\text{H}_3\text{PO}_4$  of 5 sam-  
ples of paraffin ( $d_4^{20}$  0.8042,  $n_{20}^D$  1.4308, average molec-  
ular weight 363, aniline value 116) at 150-200° were  
obtained products having the hydroxyl values (HV) 88.9,  
83.4, 72.4, 78.2, 72.0; after extraction with methanol,  
treatment with NaOH and extraction with ether, gasoline  
or methyl ethyl ketone, HV were, respectively 183.0,  
194.0, 200.0, 171.0 and 181.0.

Card 1/1

COUNTRY : USSR  
CATEGORY : Farm Animals.  
Poultry.  
Q

ABS. JOUR. : RZhBiol., No. 6, 1959, No. 25919

AUTHOR : Gochitashvili, K. I.; Esartiya, G. I.  
INST. : Georgia Zootechnical Veterinary Institute.  
TITLE : Experiments Pertaining to Supplementary  
Feeding Chicks with Hydrolyzed Rasa Krasno-  
yarskaya-9 Protein Yeasts.

ORIG. PUB. : V sb.: Materialy 13-y nauchn. konferentsii  
(Gruz. zootekhn. vet. in-t). Ch. 2. Tbilisi,\*

ABSTRACT : In the course of 40 days, 45-56 days old chicks  
were supplementarily fed yeast in a 3 g daily  
dose each, and at the age of 57-65 days with  
a 4 g dose, while chicks of the control group  
were each given 3 g of dry skim milk during  
both these time periods. Within this time the  
average weight gain in the experimental group  
amounted to 538 g, and in the control group  
to 529 g per chick. In another experiment,  
chicks 3-9 days old were supplementarily fed  
0.3 g of yeast each, chicks 10-14 days old

Card: 1/2  
\*1957, 22-26

COUNTRY : USSR  
CATEGORY :  
ABS. JOUR. : RZhBiol., No. 1959, No.  
AUTHOR :  
INST. :  
TITLE :  
ORIG. PUB. :  
ABSTRACT : were given 1.5 g, chicks 15-20 days old, 2 g, and chicks 21-30 days old, 3-4 g. In both experiments yeast was readily consumed, did not produce adverse effects and influenced growth, development and survival rate of the chicks favorably. In the experimental group the death rate amounted to 2 percent, in the control group to 6 percent. -- A. D. Musin

CARD: 2/2

SEARLENKO, L.; PAPAZIAN, L.

For a more rational use of starchy materials in leather hide tanning.  
Pt. 1. Godishnik khim tekhn. no. 1:133-142 '62 [publ. '63].

ESAULENKO, L.; PESHEVA, M., inzh.; MIKHAILOVA, E., inzh.

Bark of *Solix viminalis* as raw material for obtaining  
tanning extracts. Godishnik khim tekhn 9 no.2:45-55 '62  
[publ. '63].

ESAUENKO, Leonid IA.

A new device for the determination of certain physicomechanical indexes of wool fibers. Tekstilna prom 11 no.1:23-26 '62.

1. Khimiko-tehnicheski institut, Sofia.

ESAUENKO, L.; KOVACHEV, N.

A way of determining sulfuric acid in pickle solutions while treating lamb and sheep hides by the bread-pickle method. Khim i industriia 36 no.4:133-136 '64.

ESAUOV, A.F.

The formation of vocational interests in older pupils. Uch.zap.  
Len.un. no.214:77-88 '56. (MIRA 10:3)  
(Vocational guidance)

ESAUOV, A.J., kandidat pedagogicheskikh nauk.

Studying the students in technical education. Politekh. obuch. no.9;  
7-10 g '57. (MLRA 10:9)  
(Technical education) (Students)

ESAUOV, A.F. (Leningrad)

Role of industrial experience and theoretical knowledge in constructive technical activity. Vop. psikhol. 8 no.3:136-148  
My-Je '62. (MIRA 15:6)  
(Technical education)

ESAVLOV, E. A.  
ESAVLOV, E. A.

USSR / Cultivated Plants. Plants for Technical Use.  
Oil Plants. Sugar Plants.

Abstr Jour : Ref Zhur - Biol., No 6, 1956, No 34733

Author : Esavlov, E. A.

Inst : Not given

Title : Results of Experiments with Hybrids of the  
First Generation.

Orig Pub : Tabak, 1957, #2, 17-18

Abstract : Field experiments, conducted in 1956 in the Crimean Sovkhoz for Tobacco Cultivation with 53 tobacco hybrids of the 1st generation, have shown that hybrids #1 Krymskiy (American 315 x Ostrolist 2747), #2 Krumskiy (Ostrolist 2747 x American 315), #4 (Ostrolist 2747 x Trapezond 151), #5 (Hybrid 1 x Trapezond 1867) and Alak-Altinskiy #1, have optimal qualities according to the crop field and the yield of raw material. --- Smirnov.

Card 1/1

ESAUOV, G.A.

Using sulfuric acid paste in tree tapping in Siberia. Gidroliz.  
i lesokhim.prom. 10 no.4:22-23 '57. (MIRA 10:7)

1. Treat Zapsibkhimles.  
(Siberia--Tree tapping) (Sulfuric acid)

AKULINICHEV, I.T.; ANDREYEV, L.F.; BAYEVSKIY, R.M.; BAYKOV, A.Ye.; BUYLOV, G.G.  
GAZENKO, O.G.; GRYUNTAL', R.G.; ZAZYKIN, K.P.; KLIMENTOV, Yu.F.;  
MAKSIMOV, D.G.; MERKUSHKIN, Yu.G.; MONAKHOV, A.V.; PETROV, A.P.;  
RYABCHENKOV, A.D.; SAZONOV, N.P.; UTYAMYSHEV, R.I.; FREYDEL', V.R.;  
KHIL'KEVICH, B.G.; SHADRINTSEV, I.S.; SHEVANDINA, S.B.; ESAUOV,  
N.G. YAZDOVSKIY, V.I.

Method and means of medical and biological studies in a space  
flight. Probl. kosm. biol. 3:130-144 '64. (MIRA 17:6)

*ESAULOV, P.*

USSR/General Division - History. Classics.. Personalities.

A-2

Abs Jour : Ref Zhur - Biologiya, No 7, 10 April 1957, 25676

Author : Esaulov, P.

Inst :

Title : An Eminent Scientist and Expert on Stock-Raising.

Orig Pub : Kolkhoznoye proiz-vo, 1956, No 10, 32

Abst : No abstract.

Card 1/1

KORSHUNOV, A.A., gornyy inzh.; KRUGLOV, Ye.I., gornyy inzh.; ESAULOV, V.F.,  
gornyy inzh.

Use of some new forms of timbering at the "Zolotushinskii"  
mine. Gor. zhur. no.7:77-78 Jl '65.

(MIRA 18:8)

1. Vsesoyuznyy nauchno-issledovatel'ski gornometallurgicheskiy  
institut tsvetnykh metallov (for Korshunov, Kruglov).
2. Zolotushinskii polimetallicheskiy rudnik (for Esaulov).

ESAULOVA, I. N.: Master Biol Sci (diss) -- "The biology of blossoming and the mutual pollinability of the better types of pears from the collection of the Maykop Experimental Station VIR". Leningrad, 1958. 16 pp (All-Union Order of Lenin Acad of Agric Sci im V. I. Lenin, All-Union Inst of Plant Growing), 150 copies (KL, No 6, 1959, 131)

YEVDOKIMOVA, A.M.; ESAULOVA, V.A.; GANICH, M.M.

Nurses' councils. Med. sestra 20 no.4:59-62 Ap '61.

(MIRA 14:5)

1. Predsedatel' Soveta meditsinskikh sester Vologodskoy gorodskoy bol'nitsy (for Yevdokimova).
2. Predsedatel' Soveta meditsinskikh sester Kirovskoy psikhonevrologicheskoy bol'nitsy (for Esaulova).
3. Glavnnyy vrach Mezhgorskoy rayonnoy bol'nitsy, Zakarpatskaya oblast' (for Ganich).

(VOLOGDA--NURSES AND NURSING)

(KIROV--NURSES AND NURSING)

(MEZHGOR DISTRICT (TRANSCARPATHIA)--NURSES AND NURSING)

U S S R .

Sulfuric acid hydrolysis of  $\gamma$ -chloroperfusulfonic acid and its chlorides. G. T. Payyan and R. M. Ojanesyan. Izvest. Akad. Nauk Ar'myan. S.S.R., Ser. Fiz.-Mat., Elektron. i Tekh. Nauk 7, No. 2, 60-63 (in Russian) (Armenian summary, 63-4) (1964).—Letting 6 g.  $\text{MeCCl:CHCH}_2\text{SO}_3\text{Na}$  (I) stand in 10 ml. concd.  $\text{H}_2\text{SO}_4$  3 days gave much  $\text{HCl}$  evolution and a deposit of  $\text{NaSO}_4$ . After diln. of the soln. and neutralization with  $\text{K}_2\text{CO}_3$  (filtration), the evapd. soln. gave a residue, which after extn. with abs.  $\text{EtOH}$  (hot) gave 87.2%  $\text{MeCOCH}_2\text{CH}_2\text{SO}_3\text{K}$ , m. 178-200°; similarly was obtained 61.4%  $\text{Na salt}$ , m. 230°. If the neutralization is made with  $\text{Ba(OH)}_2$ , excess  $\text{Ba}$  removed with  $\text{CO}_2$ , and the soln. evapd., there is obtained 70.2%  $\text{Ba salt}$ ,  $\text{CaBa(OsO}_3\text{Ba}$ , m. 230-7°. None of the salts react with semicarbazide, but they do react with  $\text{NH}_2\text{OH}$ . From cooled soln. of 1 g. I and 1 g.  $S$ -benzylisothiouronium-HCl in a little  $\text{H}_2\text{O}$  there was obtained a ppt. of 1.5 g. corresponding  $S$ -benzylisothiouronium salt,  $\text{C}_9\text{H}_{11}\text{N}_3\text{O}_3\text{S}_2\text{Cl}$ , m. 80-8° (from 60%  $\text{EtOH}$ ); also formed from the free acid, I, treated with  $\rho$ -toluidine in concd.  $\text{HCl}$  gave  $\text{MeCCl:CHCH}_2\text{SO}_3\text{H:MeC}_6\text{H}_4\text{N}_3\text{H}_2\text{-p}$  (from 60%  $\text{EtOH}$ );  $\text{MeCOCH}_2\text{CH}_2\text{SO}_3\text{H}$  under these conditions failed to form a salt, as was the case with isothiouronium derivs. Treatment of 10 g.  $\text{MeCCl:CHCH}_2\text{SO}_3\text{Cl}$  with 20 ml. concd.  $\text{H}_2\text{SO}_4$  gave much  $\text{HCl}$  and  $\text{SO}_2$  and after 2 days, the dild. soln. was distd. under reduced pressure, yielding 10 ml.  $\text{MeCOCH}_2\text{CH}_2$  (semicarbazone, m. 141.5-2°). With 60% and 80%  $\text{H}_2\text{SO}_4$ , the hydrolysis is very slow and requires heating, which causes much tar formation. With 40% acid, almost no acidic hydrolysis takes place. G. M. Kosolapoff

ESAYAN, G. T.

Mechanism of hydrogenation of divinylacetylene. V. I. Isagulyants, G. T. Esayan, A. G. Terzyan, R. M. Organesyan, and N. M. Manasegyan. *Doklady Akad. Nauk S.S.R.*, 94, 883-5(1954).—Hydrogenation of divinylacetylene was performed in EtOH, AcOH, or xylene at both elevated and atm. pressures over Raney Ni. The results indicate that the primary product is 2,4-hexadiene, which in turn yields 2- and 3-hexene, and finally *n*-hexane. The reaction was followed by treatment with maleic anhydride and by bromination of intermediates.

G. M. Kosolapoff

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62

ESAYAN, L.; ESAYAN, M.

Chromatography of gases. Note. 1.

P. 447 (REVISTA DE CHIMIE) (Bucuresti, Rumania) Vol. 8, No. 7, July 1957

SO: Monthly Index of East European Accessions (EEAI) LC Vol. 7, No. 5. 1958

Country : Rumania  
Category : Analytical Chemistry - General  
E-1  
Abc, Jour. : Ref Zhur-Khimiya, No 6, 1959  
19059  
Author : Esayan, L.; Gherman, M.; Stefan, V.; Istrate, E.  
Institut.  
Title : Gas Chromatography. II. Analysis of a Mixture  
of Acetylene, Vinyl Chloride and Air. Analysis  
of Chlorine-Hydrogen Mixture.  
Orig. Pub. : Rev. chim., 1958, 9, No 3, 125-128

Abstract : A method has been worked out for separating a mixture of  $C_2H_2$  (I), vinyl chloride (II) and air, in a coil-shaped glass column, 1.6 m long and 5 mm in diameter, filled with aluminum silicate (particle size 0.4-0.5 mm) impregnated with dibutyl phthalate (in an amount of 20.6%). Catharometer readings are recorded by a photographic procedure similar to that used in polarography. Calibration curves for II are of linear shape, those for I are non-linear, being linear only for concentrations below 2%. Mean error of analysis about 1%. Mixtures of  $H_2$  and  $Cl_2$  are poorly separated in columns with silica-gel and charcoal, better -- in a column with a

Card: 1/2

E-6

Country : Rumania E-1  
Category : Analytical Chemistry - General  
Aba. Jour. : Ref Zhur-Khimiya, No 6, 1959 19059

Author :  
Institut. :  
Title :

Orig Pub. :

Abstract : carrier impregnated with dibutyl phthalate.  
Sensitivity 0.5% H<sub>2</sub> in analysis of 5 cm<sup>3</sup> Cl<sub>2</sub>. Communication  
I see RZhKhim, 1958, 4022. -- B. Anvayer.

Card: 2/2

ESAYAN, L.

Theoretical and empirical bases for a rapid evaluation of the  
equipment used in the chemical industry. Rev chimie Min petr  
13 no.5:263-269 My '62.

ESAYAN, L.

Possibilities of applying fluidization in Rumania. Rev chimie Min  
petr 13 no.11:641-647 N '62.

10566  
ACC NR: AP6020252

SOURCE CODE: RU/0003/65/016/11-0566/05/2

AUTHOR: Esayan, Maria

ORG: none

TITLE: Rapid determination of rectification columns by means of nomograms

SOURCE: Revista de chimie, v. 16, no. 11-12, 1965, 566-572

TOPIC TAGS: fractional distillation, chemistry

ABSTRACT: A collection of nomograms for the graphic solution of problems relating to rectification column calculations. Nomograms are given for the calculation of the number of discs and the number of separate refluxings required for continuous and discontinuous fractioning; calculations relating to discontinuous simple distillation; and the calculation of the required column diameter for both disc and filled columns. Orig. art. has: 10 figures. [JPRS]

SUB CODE: 07 / SUBM DATE: none / ORIG REF: 002 / OTH REF: 005

Card 1/1 JS

Rating of adsorption installations. Mihail Tsvayin and  
Cornelia Florea. *Rev. chim. (Bucarest)* 6, 177-84 (1955)  
(Russian summary). A method is given for the rating of  
adsorption installations for which adsorption isotherms have  
been detd.

Gerry Gerardi

2

ESAYIN, M. 2000

Calculation of hypersorption columns. *Mariana Asayan, Rev. chim. (Bucharest) 7, 198-205 (1956) (in Romanian) (Russian and German summaries).*—The classical adsorption method for the sepn. of gas mixts., in which a limitation is introduced by the relative adsorption volatility of the components and their partial pressures, is superseded by the hypersorption method in which successive adsorptions take place. The gaseous phase in one adsorption comes in contact with the adsorbed phase in the following one. The adsorbed phase becomes richer in nonvolatile component, the gaseous phase in volatile component. This mechanism is thus similar to that of rectification and the essentially graphical method described in the paper is based on this analogy. It utilizes the equil. diagram of the system (binary and ternary). This cheap and convenient method is also applicable for even small concns. of one component.

Mircea Fotino

240

ESAYAN, M.

RUMANIA/Chemical Technology. Chemical Products and Their  
Application. Part 3. - Industrial Organic  
Synthesis.

H

Abs Jour: Referat. Zhurnal Khimiya, No 21, 1958, 71635.

Author : Mariana Esayan, I. Ciolan.

Inst :  
Title : Butadiene Preparation of Ethyl Alcohol in Fluidized  
Layer.

Orig Pub: Rev. chim., 1956, 7, No 1, 31-34.

Abstract: The first results of laboratory experiments of butadiene (I) preparation by Lebedev's method from ethyl alcohol (II) in a mobile layer of a catalyst (C) are presented. The experiments were carried out on an installation with a reactor in the shape of a glass tube 24 mm in dia. in the bottom part filled with C

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RUMANIA/Chemical Technology. Chemical Products and Their  
Application. Part 3. - Industrial Organic  
Synthesis.

H

Abs Jour: Referat. Zhurnal Khimiya, No 21, 1958, 71635.

and 45 mm in the top part serving for settling C particles carried off by the gas flow. II vapors were preliminarily heated to the reaction temperature and equally distributed in the C mass by passing through a porous glass plate, on which the layer of C was placed. The size of C grains was 75 to 100  $\mu$ . Parallel experiments were carried out with the same C in an immobile layer. The yield of I depends on the reaction temperature and reaches a maximum at 420°; at a contact duration of 3.8, 3.9 and 4 sec. and temperatures of 400, 420 and 440°, the yield of I was 67.5, 71.5 and 67% and

Card : 2/3

RUMANIA/Chemical Technology. Chemical Products and Their  
Application. Part 3. - Industrial Organic  
Synthesis.

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Abs Jour: Referat. Zhurnal Khimiya, No 21, 1958, 71635.

the conversion degree was 23.2, 34.5 and 47% correspondingly. The author arrives at the conclusion that work with a mobile C layer produces better results, as far as the yield and the purity degree of I are concerned. Besides, local overheating causing C inactivity are eliminated by the C regeneration; the temperature remains uniform in the whole mass of C during the reaction. The introduction of C circulation guarantees the process continuity, maintains the maximum yield by continuously refreshing the C with the regenerated one, utilizes the heat liberated by C regeneration.

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V Chromatography of gases. I. L. Paiva and Mariana  
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view of the present chromatographic methods of gas analysis.  
Sepn. of C<sub>2</sub>H<sub>6</sub>, H<sub>2</sub> and CH<sub>4</sub> by adsorption on charcoal is  
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ESAYAN, Mariana

Rectification of partially miscible liquid mixtures. Rev chimie  
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ESAYAN, Mariana

Use of models in chemical engineering. Rev Chimie Min patr  
16 no.1:4-9 Ja '65.

L 31859-66 IJP(c)

ACC NR: AP6021273

SOURCE CODE: RU/0003/65/016/001/0004/0009

12  
B

AUTHOR: Esayan, Mariana--Esayyan, M.

ORG: none

TITLE: Utilization of models in chemical engineering

SOURCE: Revista de chimie, v. 16, no. 1, 1965, 4-9

TOPIC TAGS: chemical engineering, chemistry

ABSTRACT: The author discusses the transposition of chemical engineering processes to a different scale and the problems involved in the application of the similarity principle. Use of extrapolation is suggested to avoid some of the difficulties since it provides a more reliable scale representation than the classical similarity method, although it is theoretically inferior. Orig. art. has: 27 formulas and 1 table. [Based on author's Eng. abstract] [JPRS]

SUB CODE: 07 / SUBM DATE: none / ORIG REF: 002 / OTH REF: 001

Card 1/1 JS

UDC: 66.02.001.57.530.17

L 31443-66

ACC NR: AP6023172

SOURCE CODE: RU/0003/65/016/002/0070/0075

AUTHOR: Esayan, Mariana

ORG: none

TITLE: Scale transposition of mixing operations by means of stirring

SOURCE: Revista de chimie, v. 16, no. 2, 1965, 70-75

TOPIC TAGS: chemical engineering, chemistry

ABSTRACT: The author surveys the various and apparently contradictory aspects of the problem explored in the classical literature, and shows that extrapolation must be used in an interpretation of the stirring operation since the similitude principle does not strictly apply. The specific extrapolation rules for the different processes liable to occur in a system being stirred (heat and mass transfer, etc.) are elaborated, and the impossibility of deriving general scale-transposition equations is demonstrated. Orig. art. has: 5 figures, 23 formulas and 1 table. [Based on author's Eng. abst.] [JPRS]

SUB CODE: 07 / SUBM DATE: none / OTH REF: 004

Card 1/1 JT

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1383

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New methods of using cadaveric blood. Vest.khir. no.10:39-45  
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Institut perelivaniya krovi.  
(BLOOD AS FOOD OR MEDICINE) (CADAVERS)

ESCIKID, L.

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p. 7. Khidrotekhnika I Melioratsii Vol. 3, No. 1, 1958. Sofiia Bulgaria

Monthly Index of East European Accessions (EIAI) LC, Vol. 7, No. 10,  
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SCANDE, L.

Remarks on balance chambers. In French and Polish. p. 319.

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1. Ward of Jaw Surgery and Orthopedics (Oddeleni pro celistni chirurgii a ortopedii); 2. University Dental and Jaw Clinic (Universithi zubni a celistni kliniky), Freiburg-Breisgau, Germany

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*W.M. Sternberg*

*W.M.*  
*W.M.*

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and  $P_2O_5$ .  
J. D. Cat

*(1)*

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USSR / Cultivated Plants. Commercial. Oil-Bearing. M-5  
Sugar Bearing.

Abs Jour: Ref Zhur-Biol., No 6, 1958, 25127

Author : Eshanov, M.  
Inst : Tashkent Agricultural Institute  
Title : The Placement of Cotton Plants in Holes in Square-Pocket Planting.

Orig Pub: Khlopkovodstvo, 1956, No 4, 21-24

Abstract: It has been established on the basis of field tests made in 1954-1956 at the training farm of the Tashkent Agricultural Institute that with both square and rectangular pocket planting of cotton the shoots are thinned leaving the rest of the plants in the shape of a long drawn out one-strip bunch. When using the scheme where the plants are placed 60 x 45 cm. - 3.60 x 60 cm. - 4 and 50 x 50 -

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